



Basewide Groundwater Monitoring Program Basewide Groundwater Plume Status

BCT Meeting
December 8, 2011
Hunters Point Naval Shipyard
San Francisco, CA



Overview



- Basewide Groundwater Monitoring Program (BGMP) Objectives and Program Summary
- BGMP Development and BGMP Updates
- Current BGMP
 - HPNS CERCLA Documents
 - Well Inaccessibility
 - Groundwater Potentiometric Surface and Current Conditions Plumes Status
 - COCs, wells
- Schedule



Objectives and Program Summary



Primary Objective - monitor groundwater conditions and provide data to stakeholders

Program Summary

- Sampling, analysis and data evaluation
- Depth to water measurements (DTW) and construction of potentiometric surface maps
- Measure non-aqueous phase liquid (NAPL) annually
- Well installation, decommissioning, redevelopment, and maintenance
- Issue Exceedance Memos per Remedial Action Monitoring Plans (RAMPs)
- Semiannual Groundwater Reports
- Optimize wellfields to revise the number of wells monitored and analyses required



Program Development and Updates



- BGMP well/analyte list, remedial goals, and trigger levels based on HPNS CERCLA documents and is modified as necessary- for 1Q2012 well list includes 159 wells
- BGMP periodically reviews via the wellfield optimization process, and recommendations for revisions are submitted to the regulatory agencies for approval
- Wells decommissioned/destroyed by HPNS construction are evaluated in context of sampling/DTW measurement
- Semiannual reports document approved well list revisions



HPNS CERCLA Documents



Remedial Action Monitoring Plans (RAMPs)-all final

- Sites 7/18 (Jan 2010)
- Rest of Parcel B (Dec. 2010)
- Parcel G (Oct. 2010)
- Parcels UC-1 and UC-2 (Dec. 2010)
- Parcel D-1 (Feb. 2011)

Feasibility Studies (FS)

- Parcel E-2 (finalized in May 2011)
- Parcel E (draft final in Aug. 2011)



Parcel C CERCLA Documents



- Record of Decision (ROD)
 - Parcel C (Sept. 2010)
 - Treatability Studies
 - RU-C1 Building 253 (RACR finalized June 2011)
 - RU-C5 Building 134 (RACR will be finalized Jan. 2011)
 - Predesign Site Characterization planned Jan. 2012
 for rest of RU-C1 and RU-C5 along with RU-C2 and RU-C4



Well Inaccessibility



- Ongoing HPNS construction and remedial action projects pose inaccessibility constraints on BGMP activities (e.g., excavations, wells covered by soil piles, and soil laydown pads)
- BGMP coordinates with Navy and Navy contractors to minimize/eliminate inaccessibility conditions
- The need for replacing wells decommissioned/destroyed by HPNS construction activities is periodically evaluated
- BGMP reports list inaccessibility issues, and provide estimates of when the wells will become accessible



Typical Well Inaccessibility











A-Aquifer Potentiometric Surface Map — 3Q2011

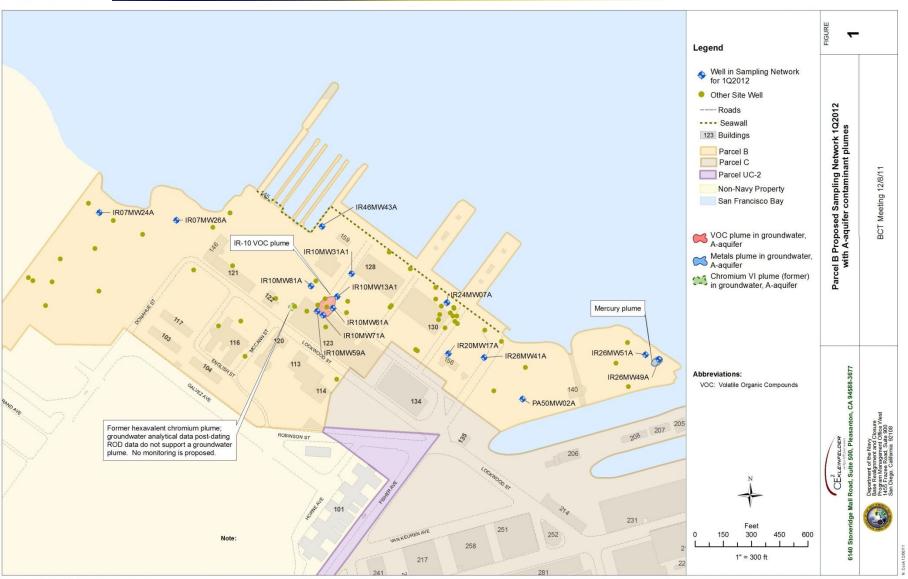






Parcel B Plume Map

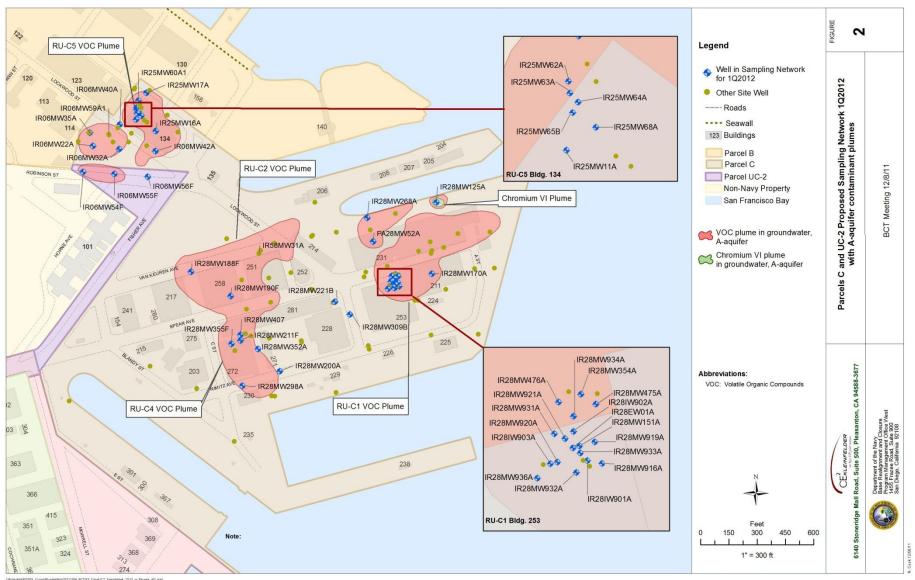






Parcels C and UC-2 Plume Map

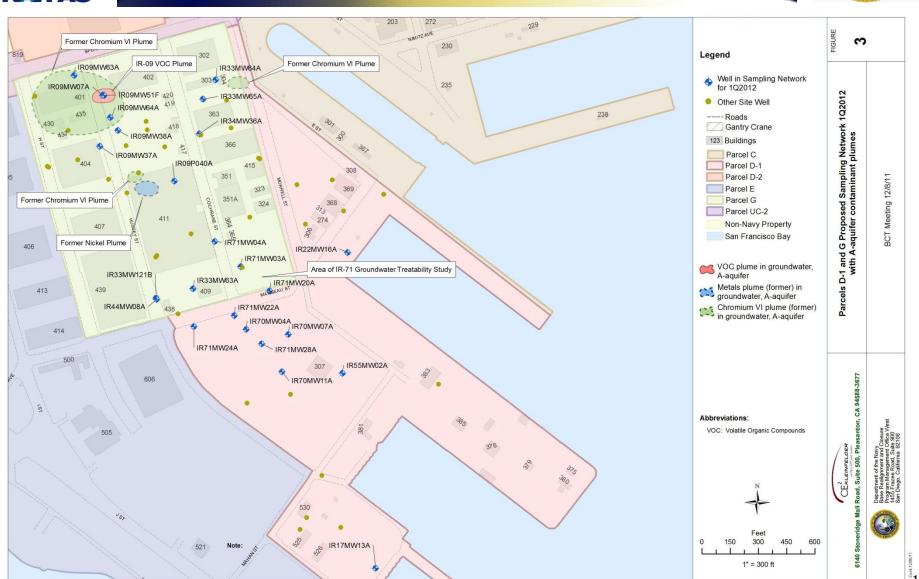






Parcels D-1 and G Plume Map

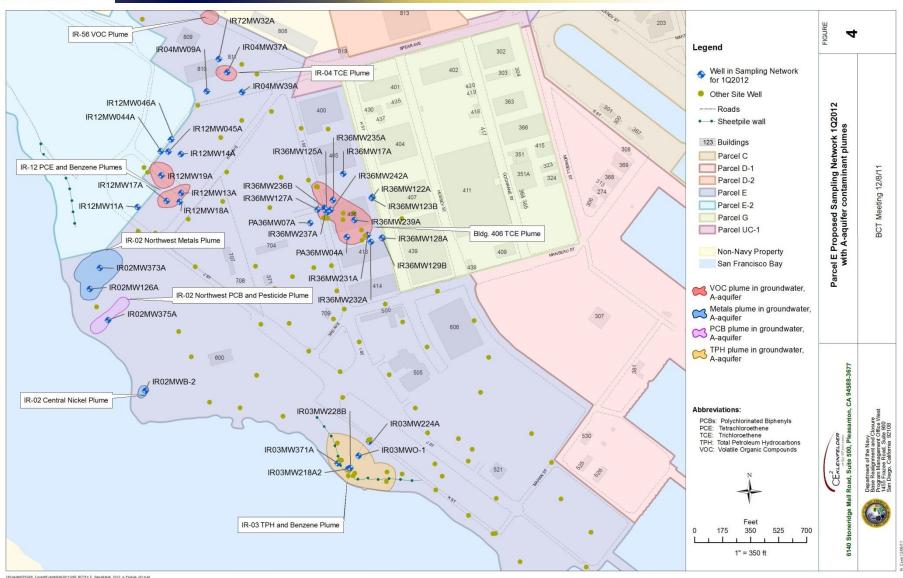






Parcel E Plume Map

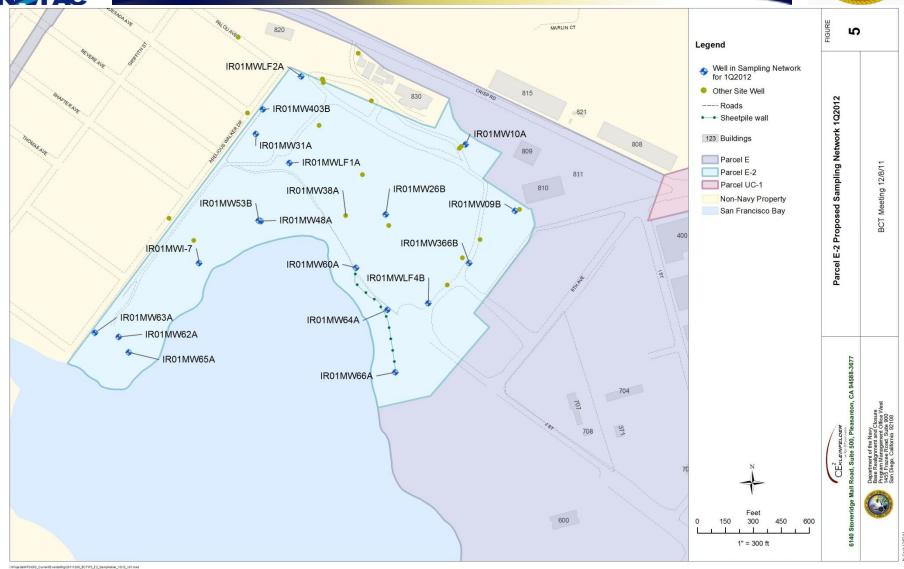






Parcel E-2 Monitoring Network

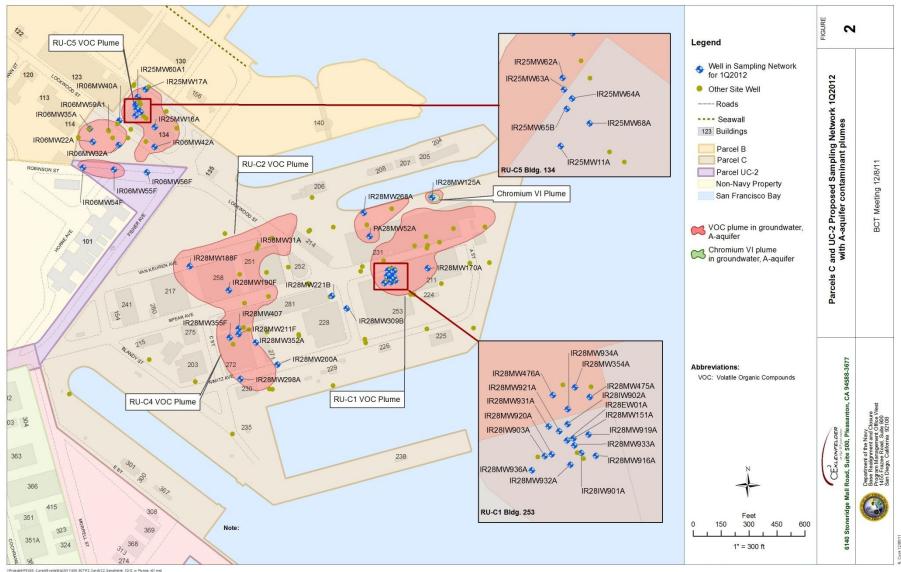






Parcel UC-2 Plume Map







Schedule



 Semiannual GW Monitoring Report (3Q/4Q2011)

2 Jan 2012

• 1Q2012 Sampling Event

Jan/Feb 2012

 Semiannual GW Monitoring Report (1Q/2Q2012)

Sept 2012

 Next wellfield optimization (incorporating data thru 3Q2011) to be presented to BCT in April 2012; agreed-upon revisions to be incorporated into 3Q2012 event.



Questions?

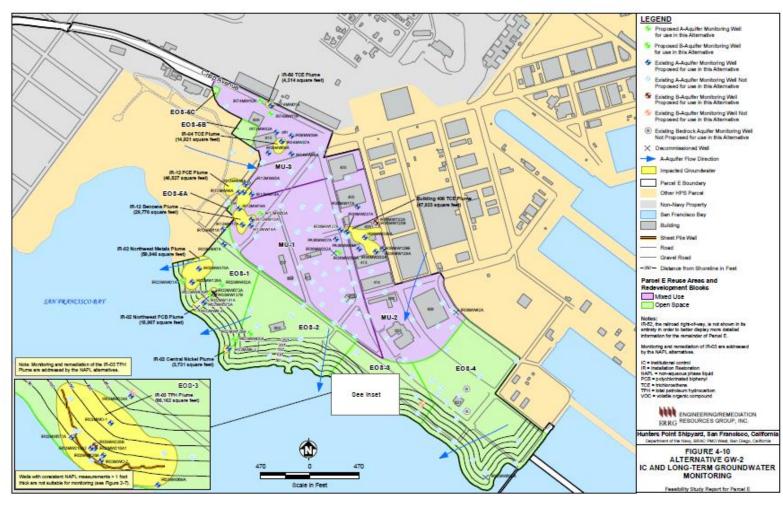






Parcel E Plume Map from DF FS

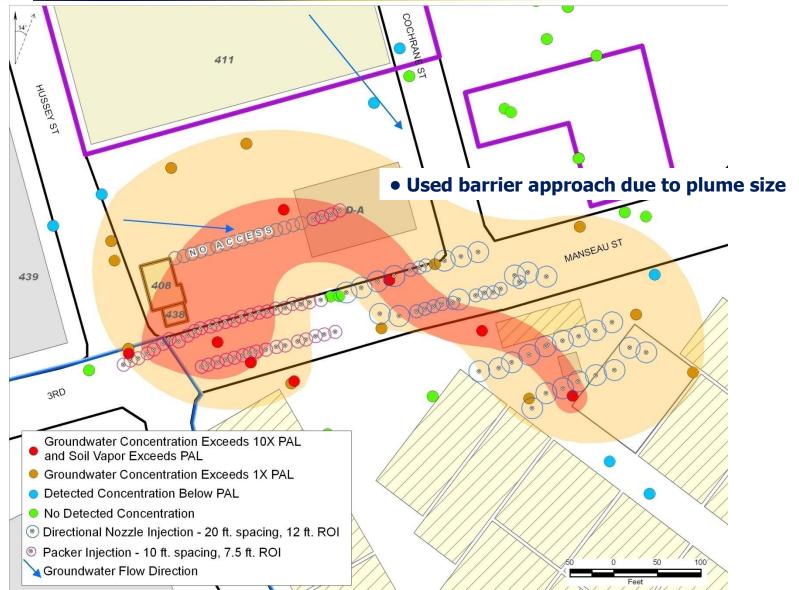






Phase II — IR-71 ZVI Injections into Newly Defined Chloroform Plume-Sept. 08







Phase III - IR-71 Post-Injection Jan 2009



